

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2004 年 3 月 11 日 (11.03.2004)

PCT

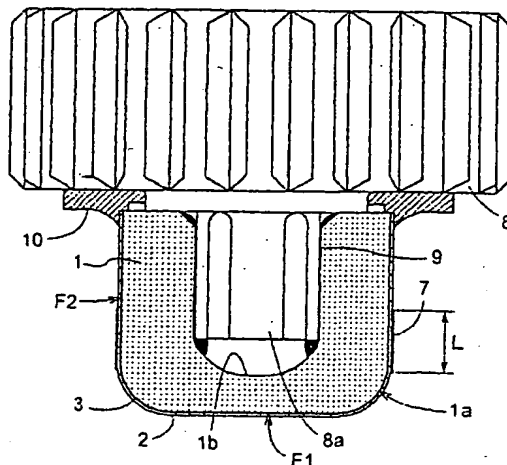
(10) 国際公開番号  
WO 2004/020300 A1

- (51) 国際特許分類<sup>7</sup>: B65D 39/04 4 0 号 Osaka (JP). 内山工業株式会社 (UCHIYAMA MFG. CORP.) [JP/JP]; 〒702-8004 岡山県 岡山市 江並 3 3 8 番地 Okayama (JP).
- (21) 国際出願番号: PCT/JP2003/010806
- (22) 国際出願日: 2003 年 8 月 26 日 (26.08.2003) (72) 発明者; および (75) 発明者/出願人 (米国についてのみ): 中田 滝子 (NAKADA, Takiko) [JP/JP]; 〒618-8503 大阪府 三島郡 島本町若山台一丁目 1 番 1 号 サントリー株式会社 研究センター内 Osaka (JP). 植田 俊弘 (UEDA, Toshihiro) [JP/JP]; 〒530-8204 大阪府 大阪市 北区堂島二丁目 1 番 5 番 サントリー株式会社内 Osaka (JP). 藤原 宏章 (FUJIWARA, Hirofumi) [JP/JP]; 〒702-8004 岡山県 岡山市 江並 3 3 8 番地 内山工業株式会社内 Okayama (JP). 藤本 勝也 (FUJIMOTO, Katsuya) [JP/JP]; 〒701-2221 岡山県 赤磐郡 赤坂町大苅田 1 1 0 6 - 1 1 内山工業株式会社内 Okayama (JP).
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ: 特願2002-255614 2002 年 8 月 30 日 (30.08.2002) JP
- (71) 出願人 (米国を除く全ての指定国について): サントリー株式会社 (SUNTORY LIMITED) [JP/JP]; 〒530-8203 大阪府 大阪市 北区堂島浜二丁目 1 番

[続葉有]

(54) Title: PLUG FOR CONTAINER AND METHOD OF PRODUCING THE SAME

(54) 発明の名称: 容器用栓とその製法



(57) Abstract: A plug for a container and a method of producing the plug, where the plug is capable of reliably preventing, in addition to adverse affect from a core such as cork, entry of various odor into the container from the outside and adverse affect caused by the plug absorbing odor from a content of the container. A liquid contact face (F1) of a core (1) and an outer periphery (F2) continuing to the liquid contact face (F1) are covered with a synthetic resin membrane. The membrane is polyester resin or a synthetic resin membrane (2) having polyester resin as a main component. The membrane (2) is bonded to the liquid contact face (F1) and the outer periphery (F2) of the core (1) through a bonding layer (3). Polyester resin or a synthetic resin film having polyester resin as a main component is used as the membrane. The core (1) is pressed in the film that is drawn and heated. Then, the film, and the liquid contact face (F1) and outer periphery (F2) of the core (1) are bonded through the bonding layer (3). Thus the plug for a container is produced.

(57) 要約: コルクなどのコアからの悪影響に加えて、容器外からの各種臭いの侵入や内容物の臭いの吸着による悪影響も確実に防止し得る容器用栓とその製法である。弾性体からなるコア (1) の接液面 (F1) および接液面 (F1) に連なる外周面 (F2) が、合成樹脂製の皮膜により被覆されて形成され

[続葉有]

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10806

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> B65D39/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B65D39/00-39/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2973249 B2 (Nagayanagi Kogyo Kabushiki Kaisha), 03 September, 1999 (03.09.99), Full text; all drawings (Family: none)	1-13
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 004292/1983 (Laid-open No. 112746/1984) (Ishii Sangyo Co., Ltd.), 30 July, 1984 (30.07.84), Page 2, line 18 to page 3, line 17; Figs. 1 to 2 (Family: none)	1-13

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
13 November, 2003 (13.11.03)

Date of mailing of the international search report  
02 December, 2003 (02.12.03)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/10806

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 099515/1984 (Laid-open No. 014651/1986) (Showa Aluminum Corp.), 28 January, 1986 (28.01.86), page 4, line 3 to page 6, line 9; Figs. 1 to 2 (Family: none)	4-9
Y	JP 2000-079953 A (Sekisui Chemical Co., Ltd.), 21 March, 2000 (21.03.00), Page 1, column 1, lines 2 to 17; Figs. 1 to 3 (Family: none)	5-9
Y	JP 2001-161790 A (The Ohtsu Tire & Rubber Co., Ltd.), 19 June, 2001 (19.06.01), Page 2, column 2, lines 27 to 29 (Family: none)	9
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 179246/1986 (Laid-open No. 086048/1988) (Mitsuyoshi NAKAJIMA), 04 June, 1988 (04.06.88), Page 4, line 4 to page 5, line 10; Figs. 1 to 3 (Family: none)	10-13